Newzen Consultants Bangalore

NC/QC/YPD/SIP-05/2017-18/DP-C1 Date: 14-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**153 min**	Shall not be less than 30 min
2	Final setting time	**268 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.17 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.14 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2017-18/DP-PCC1 **Date: 14-03-2018**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	6430	0 -20	30- 70
10mm	18.25	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.25	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	85.10	60-95	75-100	85-100	
01.18	69.45	30-70	55-90	75-100	
600.mic	43.00	15-34	35-59	60-79	
300.mic	18.30	5-20	8-30	12-40	
150.mic	8.65	0-10	0-10	0-10	

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EMAIL:newzen576@gmail.com

NC/QC/YPD/SIP-05/2017-18/DP-C2 Date: 17-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**145 min**	Shall not be less than 30 min
2	Final setting time	**272 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.15 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.58 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2017-18/DP-FA1 Date: 17-03-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.75**	60-95	75-100	85-100	
01.18	**66.50**	30-70	55-90	75-100	
600. mic	**53.05**	15.34	35-59	60-79	
300.mic	**24.25**	5-20	8-30	12-40	
150.mic	**7.10**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.54%**	-----
2	Silt Content	-----	**0.52%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/YPD/SIP-05/2017-18/DP-CA1 Date: 17-03-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.15	85-100	90 - 100
10 mm	38.30	0 - 20	25 - 55
4.75 mm	3.70	0 - 5	-0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	23.15%	Not to exceed 25 %
2.	Crushing value	26.58 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/YPD/SIP-05/2017-18/DP-S1 **Date: 17-03-2018**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 & 12 mm **TMT Steel.**

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.622**	0.567	**0.882**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**558.0**	500.0	**554.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.60**	12.00	**21.30**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**642.0**	545.0	**638.0**	545.0

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NC/QC/YPD/SIP-05/2017-18/DP-CB1 Date: 26-03-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-03-18	26-03-18	07	22500	365	16.22	**16.30**
	002	"	"	"	"	375	16.67	
	003	"	"	"	"	360	16.00	

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NC/QC/YPD/SIP-05/2017-18/DP-CB2 **Date: 28-03-2018**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-03-18	28-03-18	07	22500	375	16.67	**16.52**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	380	16.89	

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NC/QC/YPD/SIP-05/2017-18/DP-CB3 Date: 29-03-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-03-18	29-03-18	07	22500	360	16.00	**16.07**
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

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NC/QC/YPD/SIP-05/2018-19/DP-CB1A

Date: 16-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-03-18	16-04-18	28	22500	520	23.11	**23.41**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	535	23.78	

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